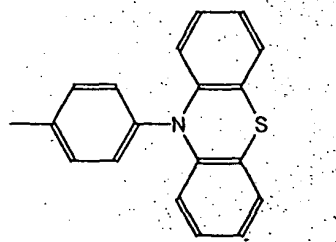
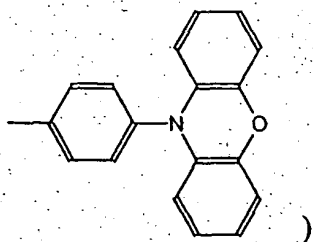
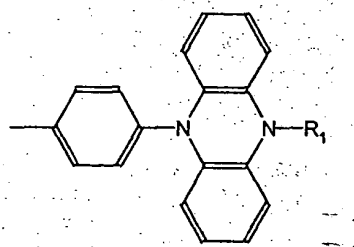
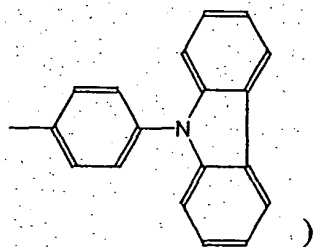
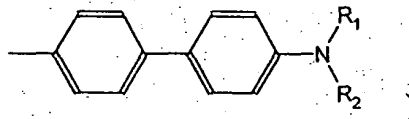
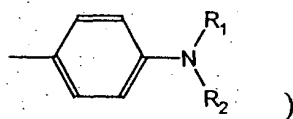


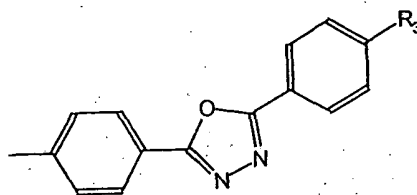
IN THE CLAIMS

1. (Currently Amended) A polyfluorene end-capped with at least one charge-transporting moiety, wherein said charge transporting moiety is a chemical moiety adapted to facilitate the transport of electrons, holes or ions.

2. (Currently Amended) A The polyfluorene according to claim 1, wherein the charge-transporting moiety is selected from the group ~~comprising~~ consisting of electron-transporting moieties, hole-transporting moieties and ion-transporting moieties.

3. (Currently Amended) A The polyfluorene according claim 1, wherein the charge-transporting moiety is selected from the group ~~comprising~~ consisting of:





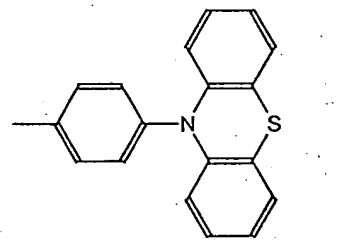
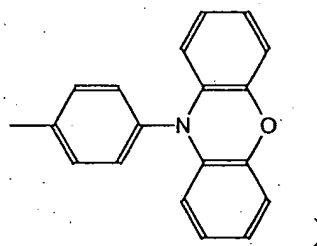
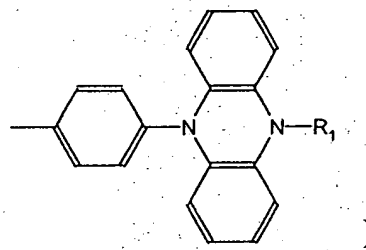
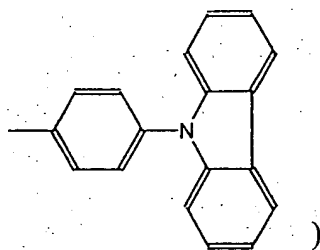
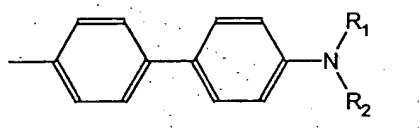
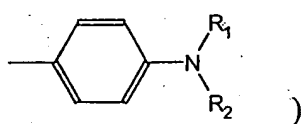
wherein R₁ and R₂ are independently at each occurrence selected from the group ~~comprising~~ consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylaminoaryl, and

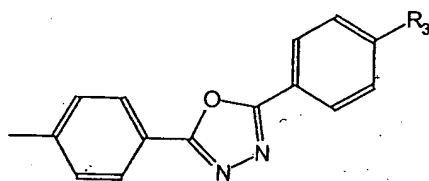
wherein R₃ is independently at each occurrence selected from the group ~~comprising~~ consisting of straight chain C₁₋₂₀ alkyl, branched C₁₋₂₀ alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

4. (Currently Amended) A The polyfluorene according to claim 3, wherein R₁ and R₂ are independently at each occurrence selected from the group ~~comprising~~ consisting of 4-methylphenyl, 2-methylphenyl, phenyl, 1-naphthyl, 2-naphthyl, 4-methoxyphenyl, 2-

methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

5. (Currently Amended) A polyfluorene end-capped with at least one moiety selected from the group ~~comprising~~ consisting of:



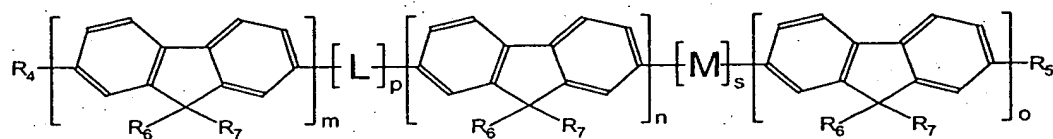


wherein R_1 and R_2 are independently at each occurrence selected from the group ~~comprising~~ consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl and substituted diarylamnoaryl, and

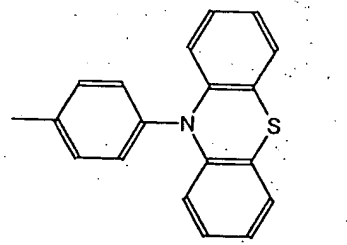
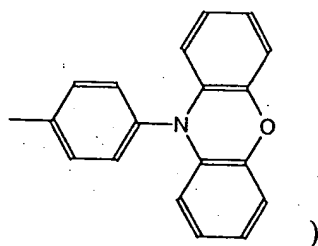
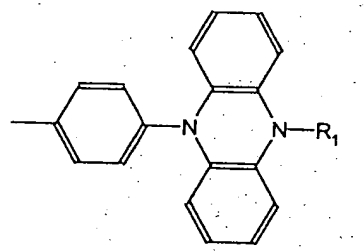
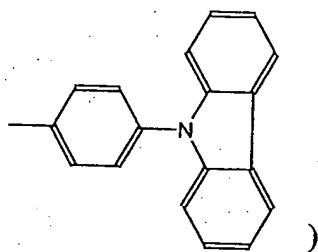
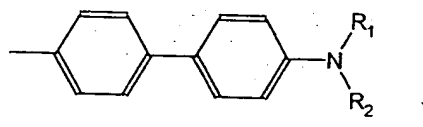
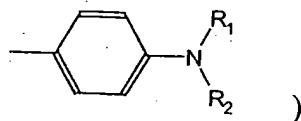
wherein R_3 is independently at each occurrence selected from the group ~~comprising~~ consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl and substituted alkylaryl.

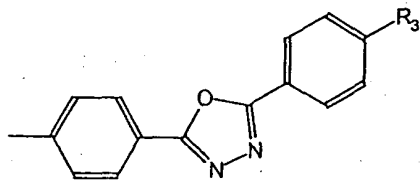
6. (Currently Amended) A The polyfluorene according to claim 5, wherein R_1 and R_2 are independently at each occurrence selected from the group ~~comprising~~ consisting of 4-methylphenyl, 2-methylphenyl, phenyl, 1-naphthyl, 2-naphthyl, 4-methoxyphenyl, 2-methoxyphenyl, 4-dimethylaminophenyl, 2-dimethylaminophenyl, 4-diphenylaminophenyl and 4-phenoxyphenyl.

7. (Currently Amended) A polyfluorene having the formula



wherein R₄ and R₅ are independently at each occurrence selected from the group
comprising consisting of:





and H

R_1 and R_2 being independently selected from the group ~~comprising~~ consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, alkoxyaryl, substituted alkoxyaryl, aryloxyaryl, substituted aryloxyaryl, dialkylaminoaryl, substituted dialkylaminoaryl, diarylaminoaryl, and substituted diarylaminoaryl.

R_3 being selected from the group ~~comprising~~ consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, and substituted alkylaryl,

and wherein R_6 and R_7 are independently at each occurrence selected from the group ~~comprising~~ consisting of straight chain C_{1-20} alkyl, branched C_{1-20} alkyl, aryl, substituted aryl, alkylaryl, substituted alkylaryl, $-(CH_2)_q-(O-CH_2-CH_2)_r-O-CH_3$,

q being selected from the range 1 - 10, r being selected from the range 0 - 20,

and wherein L and M are independently at each occurrence selected from the group ~~comprising~~ consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer that can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene,

and wherein $m+n+o \leq 10$, each of m, n, o being independently selected from the range 1 – 1,000,

and wherein p is selected from the range 0-15,

and wherein s is selected from the range 0-15,

with the proviso that, if R_4 is H, R_5 is not H, and if R_5 is H, R_4 is not H.

8. (Currently Amended) A polyfluorene according to claim 7,

wherein m, p, s, o are 0, and

wherein $R_4 - R_7$ and $R_1 - R_3$ are as previously defined.

9. (Currently Amended) A ~~The~~ polyfluorene according to claim 7 cross-linked to a polyfluorene according to claim 7 via at least one linkage selected from the group ~~comprising~~ consisting of a 9,9-spirobifluorene-linkage, a bifluorenyl-linkage, a bifluorenylidene-linkage and

an α,ω -difluorenylalkane-linkage with a length of the alkane spacer in the range from 1 – 20 C-atoms.

10. (Currently Amended) A The polyfluorene according to claim 7 which has at least one color-tuning moiety ~~incorporated into the main chain~~.

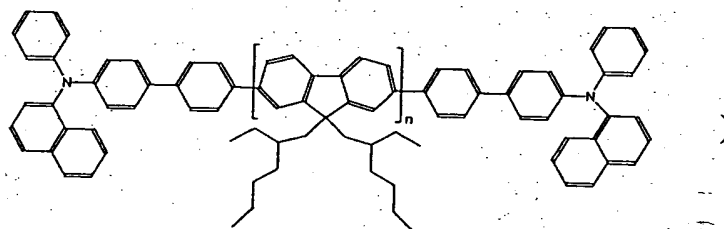
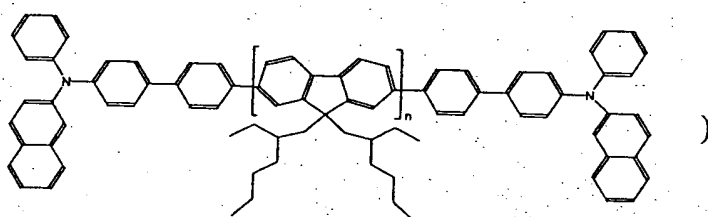
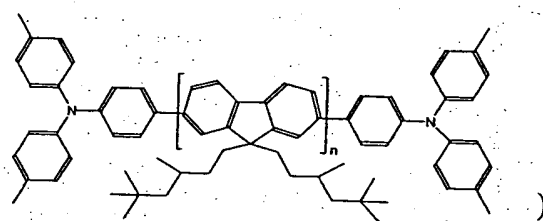
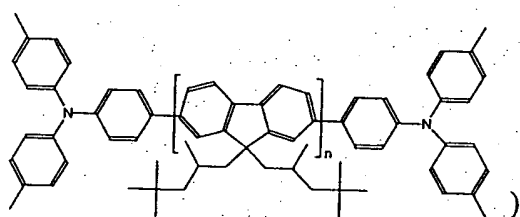
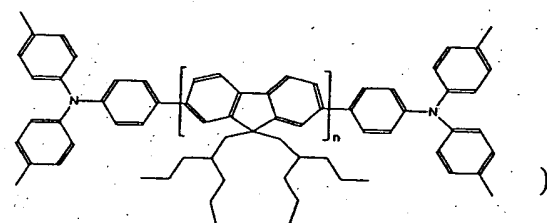
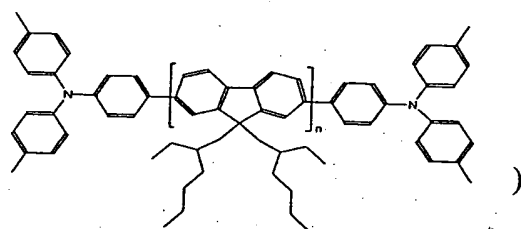
11. (Currently Amended) A The polyfluorene according to claim 10, wherein the color-tuning moiety is selected from the group ~~comprising~~ consisting of thiophene, substituted thiophene, phenyl, substituted phenyl, phenanthrene, substituted phenanthrene, anthracene, substituted anthracene, any aromatic monomer than can be synthesized as a dibromo-substituted monomer, benzothiadiazole, substituted benzothiadiazole, perylene and substituted perylene.

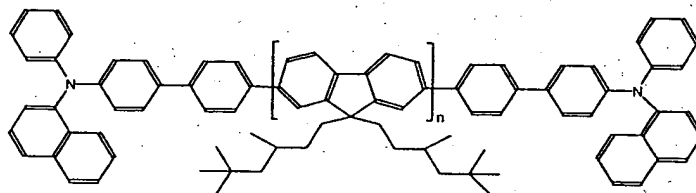
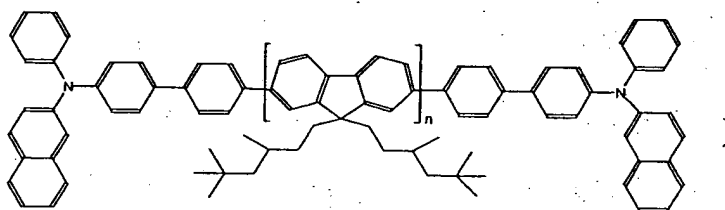
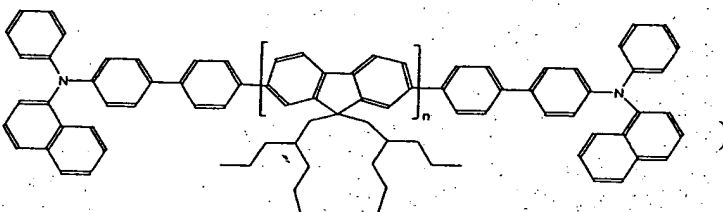
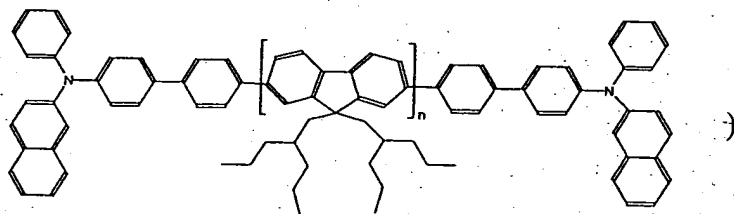
12. (Currently Amended) A The polyfluorene according to claim 7, ~~which~~ wherein the polyfluorene is liquid-crystalline.

13. (Currently Amended) A The polyfluorene according to claim 12, ~~which~~ wherein the polyfluorene is liquid-crystalline at or above 70° C.

14. (Currently Amended) A The polyfluorene according to claim 7, ~~which~~ wherein the polyfluorene is amorphous.

15. (Currently Amended) A polyfluorene selected from the group ~~comprising~~ consisting of:





wherein n is as previously defined.

16. (Currently Amended) A film ~~incorporating~~ comprising a polyfluorene according to claim 15.

17. (Currently Amended) A The film according to claim 16, ~~which~~ wherein the film

is aligned.

18. (Cancelled).

19. (Currently Amended) A film according to claim ~~18~~ 16 ~~in which said other substance is further comprising at least one other substance~~ selected from the group ~~comprising~~ consisting of fluorescent dyes, hole-transporting moieties, electron-transporting moieties, ion-transporting moieties, phosphorescent dyes, nanoparticles, low molecular weight liquid-crystalline moieties, other liquid-crystalline and/or fluorescent and/or phosphorescent and/or charge-transporting polymers.

20. (Currently Amended) A The film according to claim 16, wherein the film is deposited on an alignment layer.

21. (Currently Amended) A The film according to claim 16, wherein the film has ~~having~~ a thickness ranging from 10 nm to 2 μm .

22. (Currently Amended) A The device selected from the group ~~comprising~~ consisting of FETs, photovoltaic elements, LEDs and sensors, incorporating a polyfluorene according to claim 16.

23. (Currently Amended) A The device according to claim 22, ~~incorporating further~~ comprising another polymer.

24. (Currently Amended) A The device according to claim 23, wherein said polymer is a luminescent polymer.

25. (Currently Amended) A device selected from the group ~~comprising~~ consisting of FETs, photovoltaic elements, LEDs and sensors, ~~incorporating~~ further comprising a film according to claim 16.

26. (Currently Amended) ~~Use of a polyfluorene according to claim 1 in a film~~ A film comprising a polyfluorene according to claim 1.

27. (Currently Amended) ~~Use according to claim 26~~ The film according to claim 26, wherein the film is an emission layer.

28. (Currently Amended) ~~Use of a polyfluorene according to claim 1 in a device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors~~ A device selected from the group consisting of FETs, photovoltaic elements, LEDs and sensors, comprising a polyfluorene according to claim 1.

29. (Cancelled).

30. (Currently Amended) ~~Use of a device according to claim 22 in combination with a liquid crystal display (LCD)~~ The device according to claim 25, further comprising a liquid-crystal display.